

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE PATENT OPERATION

Applicants:

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(ii)
(iii)
(i

Title: LOW EXPANSION TRANSPARENT GLASS-CERAMICS, GLASS-CERAMIC SUBSTRATE AND OPTICAL WAVEGUIDE ELEMENT

New York, NY 10036 February 23, 2004

Mail Stop Non-Fee Amendments Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

This Amendment is being filed prior to examination to amend the claims:

IN THE CLAIMS

1. (currently amended) Low expansion transparent glass-ceramics obtained by heat treating a base glass produced at a melting temperature of 1530° or below, said glass-ceramics containing 0.5 - 2% of CaO on the basis of the amount of total oxides having an average linear thermal expansion coefficient (α) within a range from +6×10⁻⁷/°C to +35×10⁻⁷/°C within a temperature range from 100° to 300° and having 80% transmittance wavelength (T_{80}) of 700nm or below.